APPENDIX A

Location-Based Service Provider Proprietary Interface XML Input

```
<?xml version="1.0" ?>
<LIContent>
     <LIVersion version="1.3" />
     <LIServiceRequest>
           <liTransactionID>1</liTransactionID>
           <LISubscriberID>
                 <liSubscriberIDType type="MIN" />
                 SubscriberIDValue>9195438817
           </LISubscriberID>
           <LISubLocation>
                 <liCellID>6250|1|13|1
           </LISubLocation>
           liServiceType>WHEREAMI
           <LIRadius>
                RadiusValue>
                 RadiusUnits units="Miles" />
                 RadiusType radiusType="Radius" />
           </LIRadius>
           INumberBusiness>1
           <LIContentTypes>
                ContentItem item="Address" />
                ContentItem item="Postcode" />
                ContentItem item="LatLong" />
                ContentItem item="Phone" />
                ContentItem item="OtherLocation" />
                ContentItem item="URL" />
                <liContentItem item="LocDesc" />
                ContentItem item="BusinessHours" />
                ContentItem item="Rating" />
                ContentItem item="CreditCard" />
           </LIContentTypes>
     </LIServiceRequest>
</LIContent>
```

APPENDIX B

Location-Based Service Provider Proprietary Interface XML Output

```
<?xml version="1.0" ?>
<LIContent>
     <LIVersion version="1.3" />
     <LIServiceResponse>
          TransactionID>1
          ServiceType>WHEREAMI
          IiNumberBusiness>1
          IiZone>80302IiZone>
          liLocDesc>22ND ST and SPRUCE ST
          <LIContentinfo>
               <LIContentService>
                    IiAddress>2226 PEARL ST
                    liPostcode>803024630liPostcode>
                    <LILatLong>
                         Latitude>40020712liLatitude>
                         Longitude>-105265400
                         Uncertainty>0
                    </LILatLong>
                    hone>3034404167
                    <liOtherLocation>Boulder, CO, USA
                    <liURL>Boulder</liURL>
                    liBusinessHours>CO</liBusinessHours>
                   Rating>Boulder
                    <liCreditCard>USA</liCreditCard>
              </LIContentService>
         </LIContentinfo>
         <LIReturnStatus>
              <liStatusCode code="0" />
          </LIReturnStatus>
    </LIServiceResponse>
</LIContent>
```

APPENDIX C

```
Output GML
<?xml version="1.0" ?>
<!DOCTYPE LBSLocation SYSTEM "LBSFeature.dtd">
<LBSLocation>
      <timestamp>20010612181549000</timestamp>
      <address>
            <street>2226 PEARL ST</street>
            <otherLocation>Boulder,.CO</otherLocation>
            <zipcode-postalcode>803024630</zipcode-postalcode>
            <intersectionStreet>22ND ST and SPRUCE ST</intersectionStreet>
      </address>
      <geoLocation>
            <locationPoint>
                   <Point srsName="EPSG:4326">
                         <coordinates>-105.265404.40.020714/coordinates>
                   </Point>
                   <uncertainty>0</uncertainty>
            </locationPoint>
      </geoLocation>
</LBSLocation>
The feature DTD of the location information "LBSFeature.dtd" is:
<?xml version="1.0" encoding="UTF-8"?>
<!ENTITY % GMLGEOMETRYDTD SYSTEM "gmlgeometry.dtd">
%GMLGEOMETRYDTD;
<!ELEMENT LBSLocation (description?, name?, boundedBy?, timestamp?,</pre>
address?, geoLocation?, property*) >
<!ELEMENT address (street?, otherLocation?, zipcode-postalcode?,</pre>
intersectionStreet?) >
<!ELEMENT geoLocation (locationShape?, locationPoint ) >
<!ELEMENT locationShape (omni|arc|ellipse|otherShape) >
<!ATTLIST locationShape units (Miles|KM) "Miles">
<!ELEMENT omni (radius) >
<!ELEMENT arc (innerRadius, outerRadius, startAngle, stopAngle) >
<!ELEMENT ellipse (majorRadius, minorRadius) >
<!ELEMENT otherShape (property*) >
<!ELEMENT locationPoint (Point,uncertainty?) >
<!-- Simple properties hold the property value as parsed character data.
The type of the value is specified by the type attribute, which defaults to
the 'string' type.
```

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The name of the property is specified by the typeName attribute. -->

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- <!ELEMENT property (#PCDATA)>
- <!ATTLIST property
 - typeName CDATA #REQUIRED
 - type (boolean | integer | real | string) "string" >
- <!ELEMENT timestamp (#PCDATA)>
- <!ELEMENT street (#PCDATA)>
- <!ELEMENT otherLocation (#PCDATA)>
- <!ELEMENT zipcode-postalcode (#PCDATA)>
- <!ELEMENT intersectionStreet (#PCDATA)>
- <!ELEMENT radius (#PCDATA)>
- <!ELEMENT innerRadius (#PCDATA)>
- <!ELEMENT outerRadius (#PCDATA)>
- <!ELEMENT startAngle (#PCDATA)>
- <!ELEMENT stopAngle (#PCDATA)>
- <!ELEMENT majorRadius (#PCDATA)>
- <!ELEMENT minorRadius (#PCDATA)>
- <!ELEMENT uncertainty (#PCDATA)>

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